

Ammar Thabit Abdullah Zahary, Ph.D.

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- **Nationality:** Yemeni



Academic Profile

Associate Professor (waiting for Promotion to Full Professor in June 2026) with more than 18 years of academic and professional experience in teaching, research, and postgraduate supervision. Research expertise includes Data Communication and Networking, Mobile Ad Hoc Networks, Wireless and Mobile Networks, IoT, Edge/Fog/Cloud Computing, UAV and autonomous networks, Intelligent Systems, Machine Learning, AI Security, and data-driven networked systems. UK PhD holder in Data Communication & Networking with a strong publication record (90+ publications, 50 Scopus/WoS publications, h-index 17 (Google Scholar) and 12 (Scopus)). Proven track record in curriculum design, program accreditation, and leadership. Demonstrated excellence in quality assurance, digital transformation, academic program assessment, and institutional accreditation in Yemen. One of the founders of the IEEE Yemen Subsection in 2018, and the first elected chair of the subsection from November 2018 until December 2022. Active contributor to IEEE conferences, editorial boards, and national/international collaboration projects.

Networking and Intelligent Systems Expertise

- Data Communication & Networking: MANETs, VANETs, multipath routing, AODV extensions, and network performance analysis
- Wireless, Mobile, and Autonomous Networks: D2D, UAV networks, mobile edge computing, and swarm-based communication systems
- IoT, Edge/Fog/Cloud Computing: IoT architectures, in-network data reduction, offloading, distributed computing, and embedded systems
- Network Security and Intelligent Security: intrusion detection, IoT security, blockchain-based access control, and network threat detection
- Artificial Intelligence and Machine Learning: supervised, unsupervised, ensemble, deep learning, NLP, and intelligent decision-making for networked systems

Education

Doctor of Philosophy (Ph.D.) – Data Communication & Networking

De Montfort University, Leicester, United Kingdom

2004 – 2008

Thesis: *Improving Routing Performance of Multipath Ad Hoc On-Demand Distance Vector in Mobile Ad Hoc Networks.*

Master of Science (M.Sc.) – Computer Engineering

University of Science and Technology, Yemen

1999 – 2001

Bachelor of Engineering (B. Eng.) – Electrical Communications & Electronic Engineering (Computer and Control Engineering Major)

Cairo University, Egypt

1992 – 1997

Academic Appointments

Associate Professor of Networking, Intelligent Systems, IoT, Cybersecurity, and AI – Faculty of Computer & IT, Sana’a University (Dec 2014 – Present)

- Teach undergraduate and graduate courses in Data Communication, Wireless & Mobile Networks, Internet of Things, Cybersecurity, Artificial Intelligence, Machine Learning, Operating Systems, and Computer Architecture.
- Supervise M.Sc. and Ph.D. research theses in networking, IoT, blockchain, AI, and secure distributed systems.
- Lead curriculum development and quality assurance activities for computing programs.
- Participate in national accreditation processes for computing programs based on CAQA and ABET standards.

Dean of e-Learning – University of Science & Technology, Sana’a, Yemen

(Aug 2021 – Present)

- Direct the university’s e-learning deanship, guiding digital transformation strategies and the adoption of online teaching technologies.
- Develop policies, training, and quality metrics for blended and online programs.
- Support faculty in designing course content aligned with accreditation requirements.

Vice President and the Dean of Postgraduate Studies – Azal University for Human Development, Sana’a, Yemen (Jan 2019 – Apr 2021)

- Oversaw academic affairs, quality assurance, and institutional strategic planning.
- Led initiatives to improve accreditation readiness and academic performance.
- Served concurrently as the dean of postgraduate studies (Jan 2019 – Apr 2021).

Dean of Faculty of Engineering & IT – Azal University for Human Development, Sana’a, Yemen (Nov 2015 – Dec 2018)

- Managed faculty operations, curriculum development, and accreditation processes.
- Introduced new programs in computing and ensured alignment with national standards.
- Served concurrently as the University President’s advisor for quality assurance and accreditation (Nov 2015 – Dec 2018)

Director of Quality Assurance & Accreditation – University of Science & Technology, Yemen (Mar 2013 – Oct 2015)

- Led institutional self-assessment and accreditation preparation for computing programs.
- Trained faculty on program specification, course design, and outcome assessment.
- Served as the quality lead for the university's academic accreditation and digital transformation projects.
- Served concurrently as an Assistant Professor of Data Communication & Networking – Faculty of Computing and Information Technology - University of Science & Technology, Yemen (Mar 2013 – Oct 2015).

Team Leader, Computer Networks & Distributed Systems Program Development, Taiz University – Higher Education Quality Improvement Project (HEQIP), 2012–2013. Funded by the World Bank.

Head of Software Engineering Department and an Assistant Professor of Data Communication & Networking – Faculty of Engineering & IT, Taiz University, Yemen (Jan 2011 – Feb 2013)

- Taught courses were Data Communication, Wireless & Mobile Networks, Computer Architecture & Organization, Microprocessors & Assembly Language, Operating Systems, and Software Quality Assurance.
- Led the World Bank-sponsored Quality Improvement Team (QIT) to develop the Computer Networks & Distributed Systems program (2012–2013).
- Conducted research on multipath routing protocols and mobile ad hoc networks.

Head of Computer Science & IT Department – University of Science & Technology, Yemen (2008 – 2010)

- Coordinated faculty recruitment, curriculum development, and research activities.
- Established new programs and program specification documents in computer networks, information technology, and software engineering.
- Trained faculty on course syllabus design and accreditation requirements.

Quality Assurance & Accreditation

- External Auditor for master's programs in Information Technology at Saba University and International Emirates University, Yemen (Jan 2024).
- External Auditor for the national accreditation process of Information Technology programs at Al-Hekma University, Sana'a, Yemen (Mar 2024).
- Member, National Accreditation Reference Standards (NARS) committee for computing programs, Council of Accreditation & Quality Assurance (CAQA), Yemen (2018).
- Led national accreditation processes for computing programs at Sana'a University, University of Science & Technology, and Taiz University based on CAQA and ABET standards (2013 – Present).
- Trainer and consultant for program self-assessment, course specification, and academic quality enhancement across multiple universities.
- Delivered workshops on developing Program Intended Learning Outcomes (PILOs), competencies, study plans, and Program Specification Documents (PSDs) in

collaboration with the World Bank's Higher Education Quality Improvement Project (HEQIP).

Teaching Experience

Courses taught at the B.Sc. and M.Sc. levels include:

- Data Communication, Wireless & Mobile Networks
- Internet of Things, Real-Time Systems and Embedded Systems
- Cybersecurity and IT Auditing & Assurance
- Artificial Intelligence, Machine Learning, Knowledge-Based Systems
- Operating Systems and Computer Architecture

Research Supervision

- Supervised more than 50 master's graduates across computing, information technology, and cybersecurity programs
- Supervised and co-supervised three Ph.D. graduates in information technology.
- Currently supervising more than eight M.Sc. and three Ph.D. candidates in networking, IoT, blockchain, AI, and secure autonomous systems.

Research Interests

- Mobile and Autonomous Networks (MANETs, VANETs, D2D, UAV)
- Internet of Things, Wireless Sensor Networks, and Embedded Systems
- Edge, Fog, Cloud, and Distributed Computing
- Network Security, Intrusion Detection Systems, and Blockchain-based Security
- Artificial Intelligence, Machine Learning, NLP, and Intelligent Systems
- Digital Transformation in Education and Health
- Academic Program Quality and Digital Transformation in Computing

Selected Scholarly Publications

Journal Articles (Scopus/Web of Science)

Authored and co-authored more than 25 papers published in highly ranked Scopus/Web of Science indexed journals (Q1-Q4), and more than 50 papers indexed in Scopus, including both journal articles and IEEE conference papers, as of December 2025. Selected outputs below are ordered to highlight networking, IoT, edge/fog computing, and intelligent systems relevance first.

- Multi-Objective Clustering Model for Named Data Networking in MANETs – IEEE Access, 2025 (Q1–Q2).
- Threat to Trust: A Systematic Review on Internet of Medical Things Security – Journal of Parallel and Distributed Computing, 2025 (Q1).
- Survey on Blockchain-Enabled Spectrum Access Security for 6G Cognitive Radio IoT Networks – Scientific Reports, 2024 (Q1).
- A Systematic Mapping Study of UAV-Enabled Mobile Edge Computing for Task Offloading – IEEE Access, 2024 (Q1).
- Computational Offloading into UAV Swarm Networks: A Systematic Literature Review – EURASIP Journal on Wireless Communications and Networking, 2024 (Q2–Q3).

- State-of-the-Art Device-to-Device Communication Solutions – IEEE Access, 2023 (Q1–Q2).
- Optimized Algorithm for Resource Allocation for Device-to-Device Communications in Heterogeneous Networks – Computers, Materials & Continua, 2022 (Q2–Q3).
- Optimized Algorithm for D2D-MIMO 5G Wireless Networks – Computers, Materials & Continua, 2021 (Q2–Q3).
- Internet of Things: A Survey of Techniques, Operating Systems and Trends – Library Hi Tech, 2019 (Q1–Q2).
- In-Networking Double-Layered Data Reduction for Internet of Things – Sensors, 2019 (Q1–Q2).
- Blockchain-IoT Healthcare Applications and Trends: A Review – IEEE Access, 2024 (Q1–Q2).
- An Attribute-Based Access Control Model for Internet of Things Using Hyperledger Fabric Blockchain – Wireless Communications and Mobile Computing, 2022 (Q2).
- A Novel Deep Learning Technique to Model and Predict the Spread of Cybersecurity Threats – IEEE Access, 2026 (Q1–Q2).
- A novel stacking-based ensemble machine learning model for accurate user story effort estimation in scrum – Journal of Big Data, 2026 (Q1).
- Enhancing educational assessment through automated question classification using a RoBERTa-based ensemble model – Scientific Reports, 2026 (Q1).
- Complexity Analysis of EEG in Patients with Social Anxiety Disorder Using Fuzzy Entropy and Machine Learning Techniques – IEEE Access, 2022 (Q1–Q2).
- Tampering Detection Approach of Arabic Text Based on Contents Interrelationship – Intelligent Automation and Soft Computing, 2021 (Q4).

Conference Proceedings (IEEE/Scopus)

- *Authored and co-authored more than 27 papers presented at IEEE conferences, including eSmarTA 2025, ICETI 2024, IC4e 2025, ICTSA, MTICTI, and ATSIP. Topics span SDN/NFV, UAV networks, network threat detection, intrusion detection systems, IoT issues, IoT-based fog and cloud, fault diagnosis in wireless sensor networks, IoT security, and machine/deep learning models for intelligent networked systems.*
- *A detailed list is available in the last section of this resume.*

Editorial & Professional Service

- Vice Chair (2023–2026) and Founding Chair (2019–2022) of the IEEE Yemen Subsection.
- Member and Senior Member of the IEEE (since 2018).
- Editorial board or technical committee member for IEEE Access, MDPI Sensors, Frontiers in Internet of Things, Springer Nature, Elsevier Cyber Security & Applications, Emerald Library High Tech, and CMC-Computers, Materials & Continua.
- Program committee member for the International Arab Conference on Information Technology (ACIT) and multiple IEEE conferences on smart technologies and e-learning (2019–present).
- Contributed to developing the research map for the Republic of Yemen as part of the Higher Authority for Science, Technology, and Innovation (2023).
- Organized numerous workshops, symposiums, and IEEE Day activities to promote emerging technologies in Yemen.

Grants & Projects

- **Team Leader**, Computer Networks & Distributed Systems Program Development, Taiz University – Higher Education Quality Improvement Project (HEQIP), 2012–2013. Funded by the World Bank.
- **Co-Principal Investigator**, DAAD-funded ARTORRR project – Applied Research, Development & Teaching for Secure Distributed IoT Technologies and Embedded Systems, Offenburg University (Germany) and Sana’a University (Yemen), 2023–2024.
- **ERP Implementation Consultant**, assisting private sector and higher education institutions in Yemen to adopt enterprise resource planning solutions (2019 – Present).
- **Strategic Consultant**, led development of institutional strategies for Azal University and Al-Hekma University (2017–2020).
- **General Manager**, Elite Tecs Company for Technical Solutions, Sana’a, Yemen (2013 – Present), delivering IT managed services and outsourcing to enterprise clients.

Business & Consulting Experience

- **Co-Founder** – Elite Tecs Company for Technical Solutions, Sana’a, Yemen (2013 – Present). Provide IT managed services, outsourcing, ERP implementation, and technical consulting for corporate clients.
- **Senior Consultant** – Itexsolutions Company (member of Shihab Agencies Group) (Mar 2006 – Jun 2008). Conducted requirement analysis and system design studies for projects such as Wi-Max deployment, ERP evaluation, hardware requirements for Oracle ERP, and GPS solutions in Yemen.
- **Chief Information Officer (CIO)** – University of Science & Technology, Yemen (2008 – 2010). Oversaw ERP implementation, software requirements analysis, and IT infrastructure evaluation.

Academic Visits & Workshops

- Collaboration visits covering Intelligent IoT, embedded systems, secure distributed IoT technologies, blockchain, and AI at Offenburg University, Germany (2023–2024).
- Series of training workshops and study tours covering curriculum development, academic program evaluation, and quality assurance within the HEQIP project funded by the World Bank (2011–2012).
- Numerous training workshops covering curriculum development, academic program evaluation, and quality assurance at the University of Science and Technology, Yemen (2008–2010).
- Two research and academic visits to De Montfort University, UK (2009 and 2010) and two research visits to Edinburgh Napier University, UK (2012 and 2014). Visits covered curriculum development, educational program evaluation, and quality assurance.

Training in Details

- Certified eLearning Lecturer, Professional Charter Certificate – The Academy of eLearning, UK (Nov 2022) – Online training.
- Training for qualifying external reviewers for academic programs, at the Council of Accreditation and Quality Assurance (CAQA), Sana'a, Yemen, 28 May- 2 June 2022.
- Training on Academic Programs Quality and Accreditation, Hadhramout University, Mukalla, Yemen, July 2021.
- Training on ABET accreditation for Engineering Programs, Hadhramout University, Mukalla, Yemen, July 2021.
- Training course of academic program self-evaluation for national accreditation based on standards of the Council of Accreditation and Quality Assurance (CAQA), Ministry of Higher Education and Scientific Research, 2013.
- Training on Preparing Course Specification Phase II, Higher Education Quality Improvement Project (HEQIP), World Bank, Course Specification Workshop Phase II, Taiz University, Yemen, 2012.
- Training on QIT Leadership, Reviewing the progress of 2012 in the World Bank Projects, HEQIP, World Bank Mission 2013, Sana'a, Yemen, Dec 2012.
- Training on Preparing Course Specification Phase I, HEQIP, World Bank, Course Specification Workshop Phase I, Taiz University, Yemen, 2012.
- Training on Preparing Study Plan and PILOs Mapping, HEQIP, World Bank, Study Plan and PILOs Mapping Workshop, Taiz University, Yemen, 2012.
- Training on QIT Leadership, Preparing TOR, and Procurement Process in World Bank Projects, HEQIP, World Bank Mission 2012, Amman, Jordan, April 2012.
- Training on Preparing PILOs, Competencies, and PSD, HEQIP Project, World Bank, PILOF Workshop, Taiz University, Yemen, 2012.
- Training on Quality Improvement Team (QIT) leadership, HEQIP, World Bank, Movenpic Hotel, Sana'a, Yemen, 2012.
- Training course on evaluation of academic program outcomes, Teaching and Learning Centre, University of Science and Technology, Yemen, 2010.
- Training course on academic program self-evaluation, Teaching and Learning Centre, University of Science and Technology, Yemen, 2010.
- Training course on course syllabus and curriculum, Teaching and Learning Centre, University of Science and Technology, Yemen, 2010.
- Training course on Program Specification Document (PSD), Teaching and Learning Centre, University of Science and Technology, Yemen, 2009.
- Training course on preparation of the academic performance reports, Teaching and Learning Centre, University of Science and Technology, Yemen, 2009.
- Training course on teaching methods for undergraduate students, Teaching and Learning Centre, University of Science and Technology, Yemen, 2009.

Professional Memberships

- Member and Senior Member, IEEE (2018 – Present)
- Vice Chair, IEEE Yemen Subsection (2023 – 2026)

- Founding and elected Chair, IEEE Yemen Subsection (2019 – 2022)
- Member, Committee for National Accreditation Standards (NARS) for Computing Programs, CAQA (2018)
- Steering Committee Member, International Arab Conference on Information Technology (ACIT) (2009 – 2012)

Languages

- **English:** Excellent (reading, writing, speaking); earned Ph.D. from a British university.
- **Arabic:** Native; excellent reading, writing, and speaking.

Referees

Prof. Ahmed Al-Shalabi – Dean, Faculty of Computer & IT, Sana’a University, Yemen.
Professional relationship: Dean at Sana’a University, where I serve as an Associate Professor.
Email: a.alshalabi@su.edu.ye

Prof. Belal Al-Fuhaidi – Dean, Faculty of Computing & IT, University of Science and Technology, Yemen.
Professional relationship: Dean at USTY, where I undertake teaching and research duties.
Email: belalarh@ust.edu.ye

Prof. Abdulqader Mohsen – Chair, IEEE Yemen Subsection; Associate Professor of AI, Aden University, Yemen.
Professional relationship: Colleague in the IEEE Yemen Subsection Executive Committee.
Email: a.alabadi.fcit@aden-univ.net

Prof. Axel Sikora – Director, Institute of Reliable Embedded Systems & Communication Electronics (ivESK), Offenburg University, Germany.
Professional relationship: Collaborator on the ARTORRR academic exchange project.
Email: axel.sikora@hs-offenburg.de

Prof. Ahmed Al-Dubai – Network Theme Lead, Centre of Distributed Computing, Networks & Security, Edinburgh Napier University, UK.
Professional relationship: Academic collaboration during research visits.
Email: a.al-dubai@napier.ac.uk

Prof. Abdulrahman Alsewari – Senior Lecturer, School of Computing & Digital Technology, Birmingham City University, UK.
Professional relationship: Collaboration in the IEEE conference organization.
Email: rahman.alsewari@bcu.ac.uk

Prof. Faisal Saeed – Senior Lecturer, School of Computing & Digital Technology, Birmingham City University, UK.
Professional relationship: Collaboration in the IEEE conference organization.
Email: faisal.saeed@bcu.ac.uk

Publications

Networking, IoT, Intelligent Systems, AI & Security

Journal Papers (Scopus/Web of Science)

- ¹Manal A. Areqi, Ammar T. Zahary, Mansoor N. Ali, Multi-Objective Clustering Model for Named Data Networking in MANETs, in *IEEE Access*, vol. 13, pp. 205545-205557, Dec 2025, doi: 10.1109/ACCESS.2025.3638677. (SCOPUS (Q1), Web of Science (Q2))
- ²Elham Shammar, Xiaohui Cui, Ammar Zahary, Saeed Hamood Alsamhi, Mohammed A.A. Al-Qaness, Threat to trust: A systematic review on Internet of medical things security, *Journal of Parallel and Distributed Computing*, Volume 206, 2025, 105172, ISSN 0743-7315, <https://doi.org/10.1016/j.jpdc.2025.105172>. (SCOPUS (Q1), Web of Science (Q1))
- ³Nassmah Y. Al-Matari, Ammar T. Zahary, Asma A. Al-Shargabi, Survey on advancements in blockchain-enabled spectrum access security for 6G cognitive radio IoT networks, *Scientific Reports Journal*, 14, 30990, (2024). doi: 10.1038/s41598-024-82126-y. (SCOPUS (Q1), Web of Science (Q1))
- ⁴Asrar. A. Baktayan, Ammar T. Zahary, I. A. Al-Baltah, A Systematic Mapping Study of UAV-Enabled Mobile Edge Computing for Task Offloading, in *IEEE Access*, vol. 12, pp. 101936-101970, (2024), doi: 10.1109/ACCESS.2024.3431922. (SCOPUS (Q1), Web of Science (Q2))
- ⁵Asrar Ahmed Baktayan, Ammar Thabit Zahary, Axel Sikora, Dominik Welte, Computational offloading into UAV swarm networks: a systematic literature review, *EURASIP Journal on Wireless Communications and Networking*, Vol. 2024, No. 69, (2024). <https://doi.org/10.1186/s13638-024-02401-4>. (SCOPUS (Q2), Web of Science (Q3))<https://doi.org/10.1016/j.jpdc.2025.105172>
- ⁶Manal A. Areqi, Ammar T. Zahary, M. N. Ali, State-of-the-Art Device-to-Device Communication Solutions. in *IEEE Access*, vol. 11, pp. 46734-46764, (2023), doi: 10.1109/ACCESS.2023.3275915. (SCOPUS (Q1), Web of Science (Q2))doi: 10.1038/s41598-024-82126-y
- ⁷Elham A. Shammar, Ammar T. Zahary, Asma A. Al-Shargabi, "An Attribute-Based Access Control Model for Internet of Things Using Hyperledger Fabric Blockchain", *Wireless Communications and Mobile Computing*, vol. 2022, Article ID 6926408, 25 pages, 2022. <https://doi.org/10.1155/2022/6926408>. (SCOPUS, Q2)
- ⁸Abdul Kadir Hamid, Fahd N Al-Wesabi, Nadhem Nemri, Ammar Zahary, Imran Khan, An optimized algorithm for resource allocation for d2d in heterogeneous networks, *Computers, Materials & Continua*, vol. 70, no.2, pp. 2923–2936, 2022. (SCOPUS (Q2), Web of Science (Q3))
- ⁹Abdul Kadir Hamid, Fahd N Al-Wesabi, Nadhem Nemri, Ammar Zahary, Imran Khan, An optimized algorithm for D2D-MIMO 5 G wireless networks, *Computers, Materials & Continua*, vol. 68, no.3, pp. 3029-3044, (2021). (SCOPUS (Q2), Web of Science (Q3))<https://doi.org/10.1186/s13638-024-02401-4>
- ¹⁰Elham Shammar and Ammar Thabit Zahary, Internet of Things (IoT): a survey of techniques, operating systems, and trends, *Library Hi Tech Journal*, Emerald, vol. 38, no. 1, pp. 5–66, (2019). (SCOPUS, Q2, now (Q1))
- ¹¹Waleed M Ismael, Mingsheng Gao, Asma A Al-Shargabi, Ammar Zahary, An In-Networking Double-Layered Data Reduction for Internet of Things (IoT), *Sensors Journal*, MDPI, Volume 19, Issue 4, (2019). (SCOPUS (Q1), Web of Science (Q2))<https://doi.org/10.1155/2022/6926408>
- ¹²Asrar A. Baktyan, Ammar Thabit Zahary, A Review on Cloud and Fog Computing for IoT: Platforms Perspective, *EAI Endorsed Transactions on Internet of Things*, European Alliance for Innovation (EAI), vol. 4, no. 14, (2018). (SCOPUS, Q3)

- ¹³Manal A. Alareqi, Fahd N. Al-Wesabi, Ammar T. Zahary, Mansour N. Ali, A Survey of Internet of Things Services Provision by Telecom Operators, EAI Endorsed Transactions on Internet of Things, European Alliance for Innovation (EAI), Gent, Belgium, Volume 18, Issue e2, Pages 1-11, (2018).
- ¹⁴Walid Shaher M. Yousef, Muhammad Rafie Hj. Mohd. Arshad, Ammar Zahary, Vehicle Rewarding for Video Transmission Over VANETs Using Real Neighborhood and Relative Velocity (RNRV), Journal of Theoretical and Applied Information Technology, Vol. 95, No. 2, (2017). (SCOPUS, Q4)
- ¹⁵Walid Shaher M. Yousef, Muhammad Rafie Hj. Mohd. Arshad, Ammar Zahary, "Mobility and Traffic-Based Analytical Study for Single and Multipath Routing Protocols in Mobile Ad Hoc Network", International Journal of Digital Content Technology and its Applications (JDCTA), Vol. 8, No. 2, (2014). (SCOPUS, Q4)
- ¹⁶Ammar Zahary and Aladdin Ayyesh, "An Analytical Review for Multipath Routing in Mobile Ad Hoc Networks", International Journal of Ad Hoc and Ubiquitous Computing, Inderscience Publishers, Volume 5, No. 2, (2010). (SCOPUS, Q2) Enhancing the Distribution of Idle Cost for Scheduling Tasks without Setup Cost in Cloud Computing John Wiley and Sons Ltd
- ¹⁷Iman Fatima; Maria Rasheed; Darain Fatima; Muhammad Hamid; Ines Hilali Jaghdam; Ammar T. Zahary. A novel stacking-based ensemble machine learning model for accurate user story effort estimation in scrum. Journal of Big Data, 2026. <https://doi.org/10.1186/s40537-026-01414-8>. (SCOPUS (Q1), Web of Science (Q1))
- ¹⁸Muhammad Hamid, Saadia Malik, Muhammad Saleem, Ammar T. Zahary, Ines Hilali. Enhancing educational assessment through automated question classification using a RoBERTa-based ensemble model. Scientific Report, 2026. <https://doi.org/10.1038/s41598-026-45486-1>. (SCOPUS (Q1), Web of Science (Q1)) Tampering Detection Approach of Arabic-Text Based on Contents Interrelationship
- ¹⁹Amani A. A. ALL, Ammar T. Zahary, Talal A. Ali, "A Novel Deep Learning Technique to Model and Predict the Spread of Cybersecurity Threats," in IEEE Access, vol. 14, pp. 35410-35426, 2026, doi: 10.1109/ACCESS.2026.3670355. (SCOPUS (Q1), Web of Science (Q2))
- ²⁰Wafaa. A. N. A. Al-Nbhany, Ammar T. Zahary and Asma A. Al-Shargabi, Blockchain-IoT Healthcare Applications and Trends: A Review, in IEEE Access, Vol. 12, pp. 4178-4212, (2024), doi: 10.1109/ACCESS.2023.3349187. (SCOPUS (Q1), Web of Science (Q2))
- ²¹Abdulhakim Al-Ezzi, Amal A Al-Shargabi, Fares Al-Shargie, Ammar T. Zahary, Complexity Analysis of EEG in Patients with Social Anxiety Disorder Using Fuzzy Entropy and Machine Learning Techniques, in IEEE Access, vol. 10, pp. 39926-39938, 2022, doi: 10.1109/ACCESS.2022.3165199. (SCOPUS (Q1), Web of Science (Q2))
- ²²Fahd N. Al-Wesabi, Abdelzahir Abdelmaboud, Adnan A Zain, Mohammed M Almazah, Ammar Zahary, Tampering Detection Approach of Arabic-Text Based on Contents Interrelationship, Intelligent Automation and Soft Computing, Tech Science Press, Vol. 27, No. 2, Pages: 483-498, Jan 2021. (SCOPUS, Q4)
- ²³Mohammed Ali Hadi, Ibrahim Ahmed Al-Baltah, Ammar Thabit Zahary, A survey on mobile payment applications and adopted theoretical models, Sustainable Engineering and Innovation, vol. 4, no. 2, pp. 112-126, Jul. 2022. (SCOPUS, Q2)
- ²⁴Murad A. Almekhlafi, Fahd N Al-Wesabi, Imran Khan, Nadhem Nemri, Khalid Mahmood, Hany Mahgoub, Noha Negm, Amin M El-Kustaban, Ammar Zahary, "Analysis and assessment of wind energy potential of Socotra archipelago in Yemen," Computers, Materials & Continua, vol. 70, no.1, pp. 1177-1193, 2022. (SCOPUS (Q2), Web of Science (Q3))
- ²⁵Redwan A. Al-dilami, Ammar T. Zahary, Adnan Z. Al-Saqqaf, Enhancing the Distribution of Idle Cost for Scheduling Tasks without Setup Cost in Cloud Computing, Journal of Mathematical Problems in

- Engineering, John Wiley and Sons Ltd, Vol. 2021, No. Article ID 8861569, 13 Pages, (2021). (SCOPUS, Q2)
- ²⁶Elham. A. Shammam, Ammar T. Zahary and Asma. A. Al-Shargabi, A Survey of IoT and Blockchain Integration: Security Perspective, in IEEE Access, vol. 9, pp. 156114-156150, (2021), doi: 10.1109/ACCESS.2021.3129697. (SCOPUS (Q1), Web of Science (Q2))
- ²⁷Salma. M. Abdo, N. A. Abu-Taleb, and Ammar. T. Zahary, "SDN and NFV: A State-of-the-Art Comparative Study of Architectures, Techniques, and Application," 2025 5th International Conference on Emerging Smart Technologies and Applications (eSmarTA), IEEE Proceedings, 2025, pp. 1-7, doi: 10.1109/eSmarTA66764.2025.11132253.
- ²⁸Najla'a. A. Abu Taleb, Ammar T. Zahary et al., "New Approach for Network Threat Detection and Prevention Using Real-time Data Analysis and Deep Learning," 2025 5th International Conference on Emerging Smart Technologies and Applications (eSmarTA), IEEE Proceedings, 2025, pp. 1-7, doi: 10.1109/eSmarTA66764.2025.11132116.
- ²⁹Najla'a. A. Abu-Taleb and Ammar. T. Zahary, "A Review of Recent Advances in UAV Networks: Communication, Offloading, Protocols, and Security," 2025 5th International Conference on Emerging Smart Technologies and Applications (eSmarTA), IEEE Proceedings, 2025, pp. 1-10, doi: 10.1109/eSmarTA66764.2025.11132190.
- ³⁰A. T. Zahary, N. Ali Al-Shaibany, A. Sikora, "A review of Intrusion Detection Systems for the Internet of Things," 2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI), Sana'a, Yemen, 2024, pp. 1-6, doi: 10.1109/ICETI63946.2024.10777253.
- ³¹N. A. Al-Khulaidi, A. T. Zahary, A. A. Al-Shargabi and M. A. S. Hazaa, "Machine Learning for Intrusion Detection in Vehicular Ad-hoc Networks (VANETs): A Survey," 2024 4th International Conference on Emerging Smart Technologies and Applications (eSmarTA), Sana'a, Yemen, 2024, pp. 1-10, doi: 10.1109/eSmarTA62850.2024.10639016.
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